Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-05-03** **Date: 09/01/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.

Address : Kodigehalli Sub division, BBMP, Bangalore.

Project Name : Construction of building and other developmental work at Shadimahal Jakkur layout in Ward no.07/ call - 2

Agency : Sri. B. M. Muniraju, #432/A, Unnati nilaya, 1st main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/25/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-01-2018

Sample ID No : 2018-01-05-03/01

Customer ID : Cement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete	M20	02/01/2018	09/01/2018	151.00 X 149.29 X 151.09	22543	8.196	378.7	16.8	17.2
2	Cement Concrete	M20	02/01/2018	09/01/2018	150.29 X 150.83 X 150.22	22668	8.172	394.4	17.4	
3	Cement Concrete	M20	02/01/2018	09/01/2018	150.27 X 150.28 X 150.27	22583	8.175	390.7	17.3	

Note:

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Assistant Executive Engineer,
Kodigehalli Sub Division,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-05-03** **Date: 30/01/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.

Address : Kodigehalli Sub division, BBMP, Bangalore.

Project Name : Construction of building and other developmental work at Shadimahal Jakkur layout in Ward no.07/ call - 2

Agency : Sri. B. M. Muniraju, #432/A, Unnati nilaya, 1st main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/25/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-01-2018

Sample ID No : 2018-01-05-03/02

Customer ID : Cement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete	M20	02/01/2018	30/01/2018	149.68 X 150.28 X 150.28	22494	8.118	501.6	22.3	21.9
2	Cement Concrete	M20	02/01/2018	30/01/2018	150.19 X 151.02 X 150.97	22682	8.169	501.3	22.1	
3	Cement Concrete	M20	02/01/2018	30/01/2018	150.22 X 149.27 X 150.98	22423	8.183	479.9	21.4	

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-12-26-06** **Date: 30-12-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of building and other developmental work at Shadimahal Jakkur layout in Ward no.07/ call - 2
Agency	:	Sri. B. M. Muniraju, #432/A, Unnati nilaya, 1st main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/25/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-2017
Sample ID No	:	2017-12-26-06/03
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	27-12-2017

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	151	201	12140	24.350	2005.7	2032.5	Not less than 1800Kg/m^3
2	401	150	200	12030	24.060	2000.0		
3	400	150	200	12000	25.100	2091.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.630	24.390	5.08	5.50	Shall not be more than 10% by mass
2	26.260	24.870	5.59		
3	26.180	24.740	5.82		

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Lab ID : **CP-2017-12-26-06** **Date: 30-12-2017**

Sample ID No : **2017-12-26-06/03**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	150	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	151	200	
3	402	150	201	
4	401	152	199	
5	400	152	201	
6	401	150	200	
7	400	150	201	
8	400	151	202	
9	401	150	201	
10	401	151	200	
11	401	150	201	
12	400	152	202	
13	400	151	200	
14	402	150	201	
15	402	151	201	
16	400	150	202	
17	401	152	200	
18	400	151	200	
19	400	150	201	
20	401	149	201	
Average of 20	**401**	**151**	**201**	

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Lab ID : **CP-2017-12-26-06** **Date: 30-12-2017**

Sample ID No : 2017-12-26-06/03

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	150	60000	314.2	5.2	5.3
2	401	151	60551	321.7	5.3	
3	402	150	60300	319.5	5.3	
4	401	152	60952	331.4	5.4	
5	400	152	60800	305.5	5.0	
6	401	150	60150	314.7	5.2	
7	400	150	60000	328.3	5.5	
8	400	151	60400	315.9	5.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-26-06** **Date: 29-12-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of building and other developmental work at Shadimahal Jakkur layout in Ward no.07/ call - 2
Agency	:	Sri. B. M. Muniraju, #432/A, Unnati nilaya, 1st main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/25/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-2017
Sample ID No	:	2017-12-26-06/01
Sample Type	:	Zuari 53 grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-12-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.15%	_
2	Finess by Air permeablity method (m^2/kg, Min)	281.3m^2/kg	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	305 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-26-06** **Date: 24-01-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of building and other developmental work at Shadimahal Jakkur layout in Ward no.07/ call - 2
Agency	:	Sri. B. M. Muniraju, #432/A, Unnati nilaya, 1st main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/25/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-2017
Sample ID No	:	2017-12-26-06/01
Sample Type	:	Zuari 53 grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	27-12-2017

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2017-12-26-06** **Date: 29-12-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of building and other developmental work at Shadimahal Jakkur layout in Ward no.07/ call - 2
Agency		Sri. B. M. Muniraju, #432/A, Unnati nilaya, 1st main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/25/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-2017
Sample ID No	:	2017-12-26-06/03
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	26-12-2017
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	77	77	7.7	92.3	90-100
3	1.18 mm	216	293	29.3	70.7	70-100
4	600 micron	146	439	43.9	56.1	40-100
5	300 micron	373	812	81.2	18.8	5-70
6	150 micron	82	894	89.4	10.6	0-15
7	Pan	106	1000	100.0	0.0	0

Result: The tested sample do confirm to specified limits.

Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
Bangalore.

A.E(W2)

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2017-12-26-06** **Date: 29-12-2017**

Sample ID No : 2017-12-26-06/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.18	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%

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